

Permit No. LA0003301

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C... 1251 et. seq; the "Act"),

Dow Chemical U.S.A.
Louisiana Division
P.O. Box 150
Plaquemine, Louisiana 70765-0150

is authorized to discharge from a facility located at Plaquemine, Louisiana

to receiving waters named Mississippi River
Bayou Bourbeaux

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I (110 pages), II (14 pages), and III (6 pages) hereof.

This permit shall become effective on May 4, 1987

This permit and the authorization to discharge shall expire at midnight, May 3, 1992.

Signed this 3rd day of April 1987


Myron O. Knudson, P.E.

Director, Water Management Division (6W)

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

FINAL OUTFALL 001

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 001 - combined process, utility and storm runoff from the Division Return canal system to the Mississippi River.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Temperature, °F	N/A	N/A	Report	Report
Total Residual Chlorine	Report	Report	N/A	N/A
Total Purgeable Halocarbons	Report	Report	N/A	N/A
Total Purgeable Aromatics	Report	Report	N/A	N/A
Total Phenols	Report	Report	N/A	N/A
Biomonitoring	N/A	N/A	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	Daily	**
Temperature, °F	Continuous	Record
Total Residual Chlorine	1/Day	Grab
Total Purgeable Halocarbons	1/Month*	24-Hour Composite
Total Purgeable Aromatics	1/Month*	24-Hour Composite
Total Phenols	1/Month*	24-Hour Composite
Biomonitoring	(See Part III)	24-Hour Composite

* See Part III.9.

** Calculated based upon number of pumps operating, their design capacity and pump total running time.

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FINAL OUTFALL 001

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored continuously and recorded (See Part III).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 001; the monitoring point for pH shall be in the sampling drum which receives water from all pumps which pump the discharge from the Division Return Canal System to the Mississippi River. The residence time of water in this sampling drum will reflect the instantaneous pH of the combined flow, i.e., the holdup in the vessel shall be less than 15 minutes.

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During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 101 - process wastewater from the manufacture of chlorinated polyethylene.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand	318 (702)	636 (1404)	N/A	N/A
Total Suspended Solids (TSS)	409 (900)	818 (1800)	N/A	N/A
Total Residual Chlorine	31 (69)	37 (82)	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	Continuous	Record
Total Oxygen Demand	1/Week*	24-Hour Composite
Total Suspended Solids (TSS)	1/Week*	24-Hour Composite
Total Residual Chlorine	1/Week	Grab

* Noncompliance with a daily average or daily maximum requirement will increase the monitoring frequency to 3/week for four weeks without a noncompliance.

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INTERNAL OUTFALL 101

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by Chlorinated Polyethylene early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 101; Southwest corner of block 19, discharge of settling pond.

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INTERNAL OUTFALL 111

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 111 - once-thru cooling water from chlorinated polyethylene.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month	Estimate

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INTERNAL OUTFALL 111

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by Chlorinated Polyethylene early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 111, once through cooling water from chlorinated polyethylene. Flow determined as 111 flow estimate = Total - 101.

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INTERNAL OUTFALLS 211, 221, and 231

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 211 - once through cooling water from methyl cellulose unit, 221 - treated and uncontaminated stormwater and 231 stormwater that exceeds the impoundment volume.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Net Dissolved Total Oxygen Demand*	Report	Report	N/A	15 (mg/l)*
Total Oxygen Demand**	N/A	N/A	N/A	200 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Daily	Estimate
Net Dissolved Total Oxygen Demand	Daily	Grab
Total Oxygen Demand	Daily**	Grab

* Net Total Dissolved Oxygen Demand to OTCW at 211.

** When 221 or 231 is flowing. Report TOD only until December 31, 1984.

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INTERNAL OUTFALLS 211, 221, and 231

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 211, once through cooling water; 221 treated and uncontaminated storm runoff; 231 storm-water that exceeds capacity of impoundment at 221.

Note: 221 and 231 utilize the same drainage path to the canal.

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INTERNAL OUTFALL 311

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 311 - Chlor-alkali II plant process discharge.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Suspended Solids (TSS)	509 (1122)	1098 (2420)	N/A	N/A
Total Residual Chlorine	7.9 (17.4)	13.0 (28.6)	N/A	N/A
Total Copper	4.9 (10.8)	12.0 (26.4)	N/A	N/A
Total Lead	2.4 (5.3)	5.9 (13.0)	N/A	N/A
Total Nickel	3.7 (8.1)	7.3 (21.3)	N/A	N/A
Total Purgeable Halocarbons*	1.3 (3)	2.7 (6)	N/A	N/A
Biomonitoring	N/A	N/A	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Record
Total Suspended Solids (TSS)	1/Day	24-Hour Composite
Total Residual Chlorine	1/Day	Grab
Total Copper	1/Week	24-Hour Composite
Total Lead	1/Week	24-Hour Composite
Total Nickel	1/Week	24-Hour Composite
Total Purgeable Halocarbons*	1/Week	24-Hour Composite
Biomonitoring	(See Part III)	24-Hour Composite

* EPA Method 601 or 624

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INTERNAL OUTFALL 311

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CA II early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 311, chlor-alkali plant 24" parshall flume.

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INTERNAL OUTFALL 321

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 321 - Chlorine plant.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Suspended Solids (TSS)	1108 (2601)	2550 (5610)	N/A	N/A
Total Residual Chlorine	18 (40.3)	30 (66.3)	N/A	N/A
Total Copper	11 (25)	28 (61.2)	N/A	N/A
Total Lead	5.5 (12.2)	14 (30.1)	N/A	N/A
Total Nickel	8.6 (18.9)	22 (49.5)	N/A	N/A
Total Purgeable Halocarbons*	3 (6.5)	6 (13)	N/A	N/A
Biomonitoring	N/A	N/A	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Record
Total Suspended Solids (TSS)	1/Day	24-Hour Composite
Total Residual Chlorine	1/Day	Grab
Total Copper	1/Week	24-Hour Composite
Total Lead	1/Week	24-Hour Composite
Total Nickel	1/Week	24-Hour Composite
Total Purgeable Halocarbons*	1/Week	24-Hour Composite
Biomonitoring	(See Part III)	24-Hour Composite

* EPA Method 601 or 624

** Refrigeration of TSS sample is not required.

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INTERNAL OUTFALL 321

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by chlorine early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 321, chlorine plant discharge at 36" Trench concrete. For purpose of TSS, the limit applies as the sum of TSS discharged at (a) the cell, area drainage and cell washes, (b) the impoundment until closed, and (c) the neutralization system facility prior to commingling with OTCW. The sum of influent flows may be used for calculating TSS mass.

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INTERNAL OUTFALLS 331, 341, 351, 371 and 381

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 331, 341, 351, 371 and 381; once through cooling water, condensate and storm runoff.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Day	Estimate

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INTERNAL OUTFALLS 331, 341, 351, 371 and 381

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously* without reporting requirements or records retention.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations:

Internal Outfall 331 is a 24-inch concrete ditch located on north side of Chlorine plant which contains storm runoff and OTCW.

Internal Outfall 341 is a 36-inch flume located on the south side of the block and contains OTCW from a barometric condenser, non-contact condensate, and stormwater runoff. A continuously monitored pH probe is located in this outfall and is presently monitored in the control room.

Internal Outfall 351 is a ten-foot flume located on the west side of the caustic block and contains non-contact once-through cooling water (OTCW) from a barometric condenser. A continuous monitoring pH probe is presently located directly in the outfall and is recorded and monitored in the control room for early detection of caustic in OTCW.

Internal Outfall 371 is a 20-inch pipe located west of the block and only contains non-contact cooling water from a heat exchanger. A continuous monitoring pH probe shall be placed in the outfall to detect caustic, for example a tube leak. The above control room monitoring features are required.

Internal Outfall 381 is a 20-inch pipe located on the south side of the block which contains non-contact cooling water from a heat exchanger. A continuously monitored pH probe shall be added to the outfall and is recorded and monitored in the control room for early detection of caustic in the cooling water.

* Daily grab for Outfall 331 pH monitoring.

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INTERNAL OUTFALLS 411, 421 and 461**

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 411, 421 and 461** (once-through cooling water) from propylene oxide and intermediates.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Net Dissolved Total Oxygen Demand***	N/A	N/A	Report	15 (mg/l)
1,2-Dichloropropane*	Report	Report	N/A	200 (ug/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Day	Estimate
Net Dissolved Total Oxygen Demand	1/Day	Grab
1,2-Dichloropropane	1/Week	Grab

* EPA Method 601 or 624.

** 461 OTCW flow is seasonal during warm weather only.

*** See Part III.13.

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INTERNAL OUTFALLS 411, 421 and 461

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 411, once-through cooling water at "old" 004-1; 421, once-through cooling water at "old" 004-2; 461, once-through cooling water which cools the process wastewater sent to Environmental Operations.

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INTERNAL OUTFALLS 441 and 451

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 441, stormwater overflow in excess of 3/4-inch collection of first flush and 451, once-through cooling and rain water (air system) from Glycol I area.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand	Report	Report	N/A	200 (mg/l)
1,2-Dichloropropane**	Report	Report	N/A	1.0 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Day*	Estimate
Total Oxygen Demand	1/Day*	Grab
1,2-Dichloropropane	1/Week*	Grab

* When flowing.

** EPA Method 601 or 624. This limit applies to 441 only.

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INTERNAL OUTFALLS 441 and 451

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 441 excess stormwater greater than 3/4-inch first flush and 451, once-through cooling and rain water (air system) at "old" 004-3 in the Glycol I area.

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INTERNAL OUTFALLS SUM OF 511 and 521

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls sum of 511 and 521 - process and utility wastewater and storm water from the manufacture of chlorinated solvents and Vinyl I areas.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Residual Chlorine**	450 (990)	540 (1190)	1 (mg/l)	2 (mg/l)
Total Purgeable Halocarbons*	23 (51)	46 (102)	N/A	N/A
Biomonitoring	N/A	N/A	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Record
Total Residual Chlorine**	1/Day	24-Hour Composite
Total Purgeable Halocarbons	1/Day	24-Hour Composite
Biomonitoring	(See Part III)	24-Hour Composite

* EPA Method 601 or 624.

** Concentration limits apply to internal outfall 521 only. See Part III.

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INTERNAL OUTFALLS SUM OF 511 and 521

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Solvents Canal (511) and Solvents East (521) key pH probe sites for return canal major flow locations (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 511, contact river water from steam stripper; 521, contact process wastewater.

511 (formerly 005A) process, cooling and scrubber water., 521 (formerly 005B) scrubber and stormwater from solvents manufacturing area.

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INTERNAL OUTFALL 711

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 711 - once-through cooling water from Light Hydrocarbons II.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass(lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Net Dissolved Total Oxygen Demand	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Day	Estimate
Net Dissolved Total Oxygen Demand	1/Day	Grab

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INTERNAL OUTFALL 711

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 711, once-through cooling water at former 007B sample point.

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INTERNAL OUTFALL 721

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 721 - treated contact process wastewater from Light Hydrocarbons II.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			
	Mass (lbs/day)		Other Units (Specify)	
	Daily Avg	Daily Max	Daily Avg	Daily Max
Flow (MGD)	N/A	N/A	Report	Report
Total Suspended Solids (TSS)	41 (90)	91 (200)	N/A	N/A
Biochemical Oxygen Demand (BOD)	Report	Report	N/A	N/A
Total Oxygen Demand	227 (500)	454 (1000)	N/A	N/A
Oil and Grease	11.3 (25)	17.2 (38)	N/A	N/A
Total Purgeable Aromatics*	0.45 (1.0)	0.8 (1.7)	N/A	N/A
Phenol	Report	Report	N/A	N/A
Acenaphthalene	Report	Report	N/A	N/A
Fluorene	N/A	N/A	N/A	0.05 (mg/l)
Naphthalene	N/A	N/A	.5 (mg/l)	1.0 (mg/l)

Effluent Characteristic	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow (MGD)	Continuous	Record
Total Suspended Solids (TSS)	1/Week	24-Hour Composite
Biochemical Oxygen Demand (BOD ₅)	1/Week	24-Hour Composite
Total Oxygen Demand	1/Week	24-Hour Composite
Oil and Grease	1/Week	Grab
Total Purgeable Aromatics	1/Week	24-Hour Composite
Phenol	1/Week	24-Hour Composite
Acenaphthalene	1/Week	24-Hour Composite
Fluorene	1/Week	24-Hour Composite
Naphthalene	1/Week	24-Hour Composite

* EPA Method 602 or 624.

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INTERNAL OUTFALL 721

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by continuous LHC II downstream early detection pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Outfall 721, treated contact water from LHC 11 at "old" sample point 007.

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During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 741 - plant wash down, pump seal purge, and storm runoff.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)
Total Phenols*	N/A	N/A	Report	Report
Total Purgeable Aromatics*	N/A	N/A	Report	1.0 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Week	Estimate
Total Organic Carbon	1/Week	Grab
Oil and Grease	1/Month	Grab
Total Phenols	1/Week	Grab
Total Purgeable Aromatics*	1/Week	Grab

* EPA Method 602, 604 or 624.

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INTERNAL OUTFALL 741

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 741, storm runoff discharged to effluent discharge canal.

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During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 811 - rainfall runoff and cooling tower blowdown from Glycol II and intermediates.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass(lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Chromium*	N/A	N/A	0.5 (mg/l)	1.0 (mg/l)
Total Oxygen Demand	127 (281)	322 (710)	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	Continuous	Record
Total Chromium	1/Week	24-Hr. Composite
Total Oxygen Demand	1/Week	24-Hr. Composite

* Monitoring required during chromium discharges only. See Part III.11.

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INTERNAL OUTFALLS 811 and 821

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Cellulose Canal key pH probe site for return canal major flow location (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 811, rainfall runoff, cooling tower blowdown and other utility wastewater at old sample point 008. Outfall 821, water softener stream to effluent canal adjacent to Outfall 811.

SEE HAND OUT FOR CHANGE IN DISCHARGE POINT.

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SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSINTERNAL OUTFALLS 911 and 931*

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 911 - process wastewater from the manufacture of high density polyethylene and Elastomers Research Pilot Plant once-through cooling water.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Biochemical Oxygen Demand (BOD ₅)	N/A	N/A	10 (mg/l)	20 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>When Sampled</u>	<u>Estimate</u>
Flow (MGD)		
Biochemical Oxygen Demand (BOD ₅)	**	24-Hour Composite

* 931 - See stormwater requirements in Part III.10.

** Process wastewater and storm runoff may be discharged at Internal Outfalls 911 without a monitoring schedule provided: 1) The discharge is free of floating solids in other than trace amounts, and 2) It does not exceed its discharge limitations. Any monitoring by the permittee for these parameters shall be reported on the monthly discharge monitoring reports.

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INTERNAL OUTFALLS 911 and 931*

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 911, combined Elastomers Research Pilot Plant OTCW, incidental contact wastewater, washdown/stormwater runoff and CTBD at the southwest corner of area 900 and OTCW, 931 stormwater runoff and process area washdown.

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INTERNAL OUTFALLS 921, 931 and 941

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 921 - noncontact cooling water.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month	Estimate

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INTERNAL OUTFALLS 921, 931 and 941

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Poly A Canal key pH probe site for return canal major flow location (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 921, noncontact cooling prior to entering effluent canal, at the old 009B monitoring point.

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INTERNAL OUTFALL 1011

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1011 - Polyethylene A plant noncontact cooling water and washdown.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month	Estimate

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INTERNAL OUTFALL 1011

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1011, noncontact cooling water and washdown from Poly A.

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INTERNAL OUTFALLS 1021 and 1031*

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1021 - process wastewaters from the production of low density polyethylene (Poly A).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Biochemical Oxygen Demand (BOD ₅)	94 (206)	183 (403)	N/A	N/A
Chemical Oxygen Demand (COD)	935 (2060)	1830 (4030)	N/A	N/A
Total Suspended Solids (TSS)	258 (569)	468 (1030)	N/A	N/A
Oil and Grease	68 (150)	136 (300)	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous**	Record
Biochemical Oxygen Demand (BOD ₅)	**	24-Hour Composite
Chemical Oxygen Demand (COD)	**	24-Hour Composite
Total Suspended Solids (TSS)	**	24-Hour Composite
Oil and Grease	**	Grab

* 1031 - See stormwater requirements in Part III.10.

** Process wastewater leaving the polyethylene (Poly A) area 1000 may be discharged without a monitoring schedule provided: 1) The discharge is free of floating solids in other than trace amounts, and 2) It does not exceed its discharge limitations for BOD, COD, TSS and Oil & Grease. Any monitoring by permittee for these parameters shall be reported on the monthly Discharge Monitoring Reports.

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INTERNAL OUTFALLS 1021 and 1031*

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored **.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1021, Poly A compressor condensates at "old" Q10A.

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INTERNAL OUTFALL 1101

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1101 - treated sanitary sewage.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand	N/A	N/A	70 (mg/l)	120 (mg/l)
Total Suspended Solids (TSS)	N/A	N/A	30 (mg/l)	45 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Record
Total Oxygen Demand	1/Month	Grab
Total Suspended Solids (TSS)	1/Month	Grab

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INTERNAL OUTFALL 1101

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1101, sanitary effluent near tank car cleaning equipment between blocks 41 and 30.

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INTERNAL OUTFALL 1211

During the period beginning the effective date and lasting through the expiration date,

the permittee is authorized to discharge from Outfall 1211 - wastewaters from rail car cleaning and plant maintenance to the return canal.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Organic Carbon	N/A	N/A	Report	55 (mg/l)
Oil and Grease	N/A	N/A	Report	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Day*	Estimate
Total Organic Carbon	1/Day*	Grab
Oil and Grease	1/Day*	Grab

* When flowing.

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INTERNAL OUTFALL 1211

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by LHC II Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1211, tank car cleaning plant maintenance, and storm runoff from block 41 at "old" 012 sample location.

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INTERNAL OUTFALL 1311

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1311 - boiler blowdown from Power I plant and once-through cooling water.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month	Estimate

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INTERNAL OUTFALL 1311

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Chlorine Canal key pH probe site for return canal major flow location (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1311, power house area at north side of Block 28.

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INTERNAL OUTFALLS 1401 and 1411

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 1401 and 1411 - Clarifier A and B underflow.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Suspended Solids (TSS)	Report	Report	N/A	N/A
Chemical Oxygen Demand (COD)	Report	Report	N/A	N/A
Alkalinity Phenolphthalein Method	Report	Report	N/A	N/A
Clarifying Agents Used	(See Part III.12)			

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Week	Estimate
Total Suspended Solids (TSS)	1/Week	Grab
Chemical Oxygen Demand (COD)	1/Week	Grab
Alkalinity Phenolphthalein Method	1/Week	Grab
Clarifying Agents Used	N/A	N/A

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INTERNAL OUTFALLS 1401 and 1411

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 1401, Clarifier A in Block 18, 1411 Clarifier System B in Block 35.

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INTERNAL OUTFALL 1511

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1511 - noncontact once-through cooling water from chlorinated methanes plant.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Purgeable Halocarbons*	2.8 (6.0)	11.5 (25)	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Estimate
Total Purgeable Halocarbons	1/Day	Grab

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INTERNAL OUTFALL 1511

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CMP Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1511, noncontact once-through cooling water from chlorinated methanes.

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INTERNAL OUTFALL 1521

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1521 - incinerator scrubber water, treated stormwater and excess stormwater from the manufacture of chlorinated methanes.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Organic Carbon	N/A	N/A	100 (mg/l)	138 (mg/l)
Total Purgeable Halocarbons*	1.1 (2.5)	2.3 (5)	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Record
Total Organic Carbon	1/Day	24-Hour Composite**
Total Purgeable Halocarbons	1/Day	24-Hour Composite

* EPA Method 601 or 624.

** Four-grab composited.

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INTERNAL OUTFALL 1521

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CMP Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1521, incinerator scrubber water and treated storm runoff at "old" 015A.

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INTERNAL OUTFALLS 1531 and 1541

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 1531 and 1541 - contact process wastewater and treated sulfuric acid.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Purgeable Halocarbons*	1.8 (4)	3.6 (8)	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Record
Total Purgeable Halocarbons	1/Day	24-Hour Composite

* EPA Method 601 or 625.

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INTERNAL OUTFALLS 1531 and 1541

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CMP Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 1531, contact process wastewater; 1541, sulfuric acid drain water both on west side of Block 47.

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INTERNAL OUTFALL 1551

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1551 - storm runoff from Methyl Chloride storage area.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Organic Carbon	N/A	N/A	N/A	55 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing.

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INTERNAL OUTFALL 1551

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CMP Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1551, storm runoff from Methyl Chloride storage area at northwest portion of Block 47 and will be monitored prior to commingling with 1521.

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INTERNAL OUTFALL 1601

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1601 - Dowell Schlumberger discharges.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Day*	Estimate**

* Only inorganic streams with excess acid/base. See Part III.15.
 ** Based upon occurrence.

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INTERNAL OUTFALL 1601

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1601, Dowell Schlumberger (old Dow Industrial Service) just north of Block 39.

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INTERNAL OUTFALL 1711

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1711 - cooling tower blowdown, incinerator scrubber water and treated washdown/storm runoff from Vinyl II plant.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand	N/A	N/A	Report	Report
Total Residual Chlorine	385 (847)	457 (1006)	N/A	N/A
Total Purgeable Halocarbons*	5.4 (12)	10.9 (24)	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Record
Total Oxygen Demand	1/Day	24-Hour Composite
Total Residual Chlorine	1/Day	Grab
Total Purgeable Halocarbons	1/Day	24-Hour Composite

* EPA Method 601.

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INTERNAL OUTFALL 1711

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by Vinyl II early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1711, the combination of CTBD, incinerator scrubber water and treated storm runoff from ecology area of Vinyl II. Monitoring station is on the east side of Block 66 at "old" sampling point 017.

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During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1721 - process area uncontaminated storm runoff after first flush collected.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Total Purgeable Halocarbons	N/A	N/A	N/A	1 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Day*	Estimate
Total Organic Carbon	1/Day*	Grab
Total Purgeable Halocarbons	1/Week*	Grab

* When flowing.

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INTERNAL OUTFALL 1721

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1721, uncontaminated storm runoff after "first flush" collected in the Vinyl II operation area.

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INTERNAL OUTFALL 1731

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1731 - uncontaminated storm runoff from Vinyl chloride storage area.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing.

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INTERNAL OUTFALL 1731

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by Vinyl II early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1731, stormwater drainage from Vinyl chloride storage.

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INTERNAL OUTFALL 1741

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1741 - steam stripped process water to central treatment system.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Purgeable Halocarbons*	0.45 (1)	0.9 (2)	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Day	Estimate
Total Purgeable Halocarbons	1/Day	24-Hour Composite

* EPA Method 601 or 624. See Part III.19.

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INTERNAL OUTFALL 1741

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 1741, process wastewater from steam stripper (BTMS) to central treatment plant.

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INTERNAL OUTFALLS 1811, 1821, 1831 and 1841**

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 1811, 1821, 1831 and 1841** - uncontaminated stormwater and emergency overflow from Dowanol®/Ethanolamines area.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand	N/A	N/A	N/A	200 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Day*	Estimate
Total Oxygen Demand	1/Day*	Grab
Oil and Grease	1/Month*	Grab

* When flowing.

** 1841; Excess storm runoff which exceeds the 3/4" containment in Areas I and II.

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INTERNAL OUTFALLS 1811, 1821, 1831 and 1841**

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Cellulose Canal key pH probe site for return canal major flow location (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations:

- Internal Outfall 1811 - Area I, Dowanol ® Plant
- Internal Outfall 1821 - Area II, Ethanolamine Plant
- Internal Outfall 1831 - Area III, Tank Farm
- Internal Outfall 1841 - Excess stormwater greater the 3/4" inch.

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INTERNAL OUTFALL 1901

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 1901 - cooling tower blowdown from Power 11.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/week	Estimate (orifice meter)

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INTERNAL OUTFALL 1901

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Chlorine Canal key pH probe site for return canal major flow location (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Internal Outfall 1901 at cooling tower blowdown.

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During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 2001 - Environmental operations treatment plant.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass(lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Biochemical Oxygen Demand (BOD ₅)	1144 (2542)	2778 (6127)	N/A	N/A
Total Oxygen Demand	12000(26500)	16260(35850)	N/A	N/A
Total Suspended Solids (TSS)	2722 (6000)	5444(12000)	N/A	N/A
Total Purgeable Halocarbons*	Report	6.8 (15)	Report	N/A
Total Purgeable Aromatics**	Report	6.8 (15)	Report	N/A
1,2-Dichloropropane	Report	Report	N/A	N/A
Bis(2-Chloroisopropyl) ether	Report	Report	N/A	N/A
Biomonitoring	N/A	N/A	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	Continuous	Record
Biochemical Oxygen Demand (BOD ₅)	1/Week	24-Hour Composite
Total Oxygen Demand	1/Day	24-Hour Composite
Total Suspended Solids (TSS)	1/Day	24-Hour Composite
Total Purgeable Halocarbons	2/Month	24-Hour Composite
Total Purgeable Aromatics	2/Month	24-Hour Composite
1,2-Dichloropropane	2/Month	24-Hour Composite
Bis(2-Chloroisopropyl)-ether	2/Month	24-Hour Composite
Biomonitoring	1/Quarter	(See Part III)

* EPA Method 601, see Part III. TPH limit does not include 1,2-dichloropropane and bis(2-chloroisopropyl)ether.

** EPA Method 602, see Part III.

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INTERNAL OUTFALL 2001

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored continuously and recorded.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Internal Outfall 2001, environmental operations department plant effluent. The pH may be monitored at the aeration basin during periods in which the final monitoring point is not representative.

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SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSINTERNAL OUTFALL 2201

During the period beginning the effective date and lasting through the expiration date,

the permittee is authorized to discharge from Outfall 2201 - combined by-product alkalinity (LHC II and III).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass(lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Suspended Solids (TSS)	Report	Report	N/A	N/A
Total Oxygen Demand (TOD)	Report	Report	N/A	N/A
Oil and Grease	11.3 (25)	17.2 (38)	N/A	N/A
Phenol*	Report	Report	Report	Report
Benzene	2.4 (5.4)	4.9 (10.8)	Report	Report
Toluene*	Report	Report	Report	Report
Ethylbenzene*	Report	Report	Report	Report
Naphthalene*	Report	Report	Report	Report
Total Polynuclear Aromatics*	Report	Report	N/A	N/A

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Day	Estimate
Total Suspended Solids (TSS)	1/Week	24-Hour Composite
Total Oxygen Demand (TOD)	1/Week	24-Hour Composite
Oil and Grease	1/Week	Grab
Phenol	1/Week	24-Hour Composite
Benzene	1/Week	24-Hour Composite
Toluene	1/Week	24-Hour Composite
Ethylbenzene	1/Week	24-Hour Composite
Naphthalene	1/Week	24-Hour Composite
Total Polynuclear Aromatics	1/Month	24-Hour Composite

* EPA Method 602, 604, 610 or 624. See Part III.18.

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INTERNAL OUTFALL 2201

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Solvents East key pH probe site for return canal major flow location (Block 16) or monitored only by LHC II Downstream early detection continuous pH probe (Block 48) (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 2201, combined by-product alkalinity in Block 48 (LHC II) prior to utilization for pH control of the Division return canal with control points located adjacent to Block 48 and Block 16.

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INTERNAL OUTFALL 2221

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 2221 - treated process wastewater, treated stormwater washdown, and uncontaminated stormwater.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand (TOD)	N/A	N/A	200 (mg/l)	400 (mg/l)
Oil and Grease	N/A	N/A	10 (mg/l)	15 (mg/l)
Phenol*	N/A	N/A	Report	Report
Total Purgeable Aromatics*	N/A	N/A	0.2 (mg/l)	0.35 (mg/l)
Naphthalene*	N/A	N/A	0.05 (mg/l)	0.1 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	Record
Total Oxygen Demand (TOD)	1/Week**	24-Hour Composite
Oil and Grease	1/Week**	Grab
Phenol	1/Week**	24-Hour Composite
Total Purgeable Aromatics*	1/Week**	24-Hour Composite
Naphthalene	1/Week**	24-Hour Composite

* EPA Method 602, 604, 610 or 624. See Part III.18.

** A violation of any daily maximum requirement will require 5/week monitoring frequency until six consecutive analyses without a violation.

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INTERNAL OUTFALL 2221

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CMP Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 2221, treated stormwater from the first flush rainwater impoundment, treated process wastewater, washdown and uncontaminated stormwater.

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INTERNAL OUTFALLS 2231** and 2241

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 2241 - excess stormwater that is greater than 3/4 inch impoundment capacity and 2231** - uncontaminated cooling tower blowdown.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand (TOD)	N/A	N/A	184 (mg/l)	368 (mg/l)
Oil and Grease	N/A	N/A	10 (mg/l)	15 (mg/l)
Benzene	N/A	N/A	Report	1.0 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Oxygen Demand (TOD)	1/Month*	Grab
Oil and Grease	1/Month*	Grab
Benzene	1/Month*	Grab

* When flowing.

** Monitor and report flow only for 2231.

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INTERNAL OUTFALLS 2231** and 2241

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CMP Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 2231, cooling tower blowdown near the tower on east side of LHC III block and 2241, excess stormwater greater than 3/4 inch impoundment capacity to return canal at LHC III.

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During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 2401 - Research Pilot Plants Discharge of Process, cooling water and storm runoff.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand (TOD)	Report	Report	N/A	200 (mg/l)
Total Suspended Solids (TSS)	Report	Report	N/A	N/A
Chloroform*	N/A	N/A	N/A	1.0 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Week	Estimate
Total Oxygen Demand (TOD)	1/Week	Grab
Total Suspended Solids (TSS)	1/Week	Grab
Chloroform	1/Week	Grab

* EPA Method 601 or 624.

** When sampling based upon portable velocity probe.

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INTERNAL OUTFALL 2401

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Solvents Canal key pH probe site for return canal major flow location (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 2401, northeast corner of Block 25.

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During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 2501 - Market Development Pilot Plant process wastewater*, once-through cooling water** and storm runoff**.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Total Oxygen Demand (TOD)	N/A	N/A	Report	100 (mg/l)***

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Week	Estimate
Total Oxygen Demand (TOD)	1/Week	Grab

* A 24-Hr. Composite will be collected if the facility discharges process wastewater.

** A grab sample will be collected only when discharging once-through cooling water and/or stormwater.

*** The limit is 200 mg/l daily maximum TOD when discharging process or vent scrubber water.

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INTERNAL OUTFALL 2501

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Cellulose Canal key pH probe site for return canal major flow location (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 2501, northeast corner of Block 43.

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INTERNAL OUTFALL 2801

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 2801 - Coal pile storm runoff.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Suspended Solids (TSS)	Report	Report	N/A	50 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Day*	Estimate
Total Suspended Solids (TSS)	1/Day*	Grab

* When flowing.

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INTERNAL OUTFALL 2801

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by LHC II Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 2801, at the coal pile runoff sump.

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During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls Area 2900 - Stormwater from Old Tank Farm (Block 5 and 6), and (2911, 2921, 2931, 2941, 2951, 2961, and 2971).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Oxygen Demand	N/A	N/A	N/A	200 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)
Chloroform	N/A	N/A	Report	0.75 (mg/l)
1,2-Dichloroethane	N/A	N/A	Report	1.50 (mg/l)
Tetrachloroethylene	N/A	N/A	Report	Report

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Week*	Estimate
Total Oxygen Demand	1/Week*	Grab
Oil and Grease	1/Month*	Grab
Chloroform**	1/Week*	Grab
1,2-Dichloroethane**	1/Week*	Grab
Tetrachloroethylene**	1/Week*	Grab

* When flowing.

** For 2911 and 2951 only by EPA Method 601 or 624.

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INTERNAL OUTFALLS 2911, 2921, 2931, 2941, 2951, 2961 and 2971

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored continuously and recorded at the Solvents East Ditch key pH probe site for return canal major flow location (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 2911, RCl storage; 2921, MeOH storage to 521; 2931, Propylene oxide storage; 2941, Butanol storage; 2951, EDC storage to 521; 2961, Propylene glycol and MEOH storage area and 2971, propylene oxide and glycol storage. Samples to be collected in appropriate sump prior to discharge.

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REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

INTERNAL OUTFALL 3001

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 3001 - northwest landfill stormwater runoff.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Oxygen Demand	N/A	N/A	N/A	200 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Day*	Estimate
Total Oxygen Demand	1/Day*	Grab
Oil and Grease	1/Month*	Grab

* When flowing.

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INTERNAL OUTFALL 3001

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day* via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 3001, at the sump prior to discharge.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

INTERNAL OUTFALL 3011

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 3011 - Block 80 landfill stormwater runoff.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Oxygen Demand	N/A	N/A	N/A	200 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Day*	Estimate
Total Oxygen Demand	1/Day*	Grab
Oil and Grease	1/Month*	Grab

* When flowing.

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INTERNAL OUTFALL 3011

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day* via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 3011, at the sump prior to discharge.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSINTERNAL OUTFALLS 3111, 3121, and 3131

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 3100 - Poly C Stormwater (3111, 3121, and 3131).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass(lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	55 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	N/A	Based on Rainfall
Total Organic Carbon	N/A	Grab
Oil and Grease	N/A	Grab

"Effluent water leaving the Polyethylene Area 3100 may be discharged without a monitoring schedule provided: 1) the discharge is free of floating solids in other than trace amounts, and 2) it does not exceed 55 mg/l TOC or 15 mg/l oil and grease on a grab sample basis. Any monitoring by the permittee shall be reported for Area 3100 as appropriate on the monthly Discharge Monitoring Report."

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INTERNAL OUTFALLS 3111, 3121, and 3131

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations:

- 3111 - First 3/4" of Rainfall impoundment sump.
- 3121 - Excess Rainfall - uncontaminated.
- 3131 - Discharge from Oil storage and Pellet trap.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSINTERNAL OUTFALL 3211

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 3211 - treated process wastewater from LGTI (Coal gossification) plant.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	Report	Report
Ammonia Nitrogen	68 (150)	136 (300)	N/A	N/A
Sulfide	5.4 (12)	11 (24)	N/A	N/A

LDEQ may want to consider INTERIM LIMITS.

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	2/Week	Magnetic Flow
Ammonia Nitrogen	2/Week	24-Hour Composite
Sulfide	1/Month	24-Hour Composite

No organics expected because in new system.

Old Research plant-wide range of gasification process used.

No water treatment or other environmental considerations.

*New commercial plant considers a more defined process and
no water treatment, as well as other environmental considerations.*

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INTERNAL OUTFALL 3211

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CMP Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 3211, treated process wastewater from LGTI (coal gassification) plant.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

INTERNAL OUTFALL 3221

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 3221 - uncontaminated storm runoff from LGTI first flush collection and excess over 3/4-inch of rainfall.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Oxygen Demand	N/A	N/A	N/A	200 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Oxygen Demand	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing.

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INTERNAL OUTFALL 3221

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored only by CMP Downstream early detection continuous pH probe (See Part III.20).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 3221, stormwater drainage from LGTI (coal gossification) plant. This contains first flush of 3/4-inch rainfall and the excess rainfall.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL 002

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 002 - Stormwater discharge.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing. Any exceedance of a requirement will require monitoring at 1/week frequency until three (3) consecutive samples are completely compliant.

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OUTFALL 002

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month* via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 002, stormwater discharge north of block 49 to Bayou Bourbeaux (No. 1 on August 18, 1983 Map).

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOUTFALLS 103 and 3301

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 103 - Firefighting training area stormwater discharge and 3301, firefighting training area SW containment to Division Canal System.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing. Any exceedance of a requirement will require monitoring at 1/week frequency until three (3) consecutive samples are completely compliant.

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OUTFALLS 103 and 3301

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month* via grab sample**.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 103, stormwater discharge, etc., north and east of Block 49 to Bayou Bourbeaux (No. 2 on August 18, 1983 Map), and Internal Outfall 3301, stormwater discharge from firefighting training area containment to the Division Canal upstream of the Divisions pH control system***.

** pH limitations apply to Outfall 103 only.

*** Segregation procedure: All stormwater will be collected and sent to containment. Monitoring of the firefighting training area stormwater containment will dictate which outfall the containment effluent will exit. Outfall 103 to Bayou Bourbeaux will be utilized provided the effluent is compliant with pH, TOC and Oil and Grease. If non-compliant with pH, Internal Outfall 3301 to Division Return Canal will be utilized and meet the requirements for TOC and Oil and Grease. The Division Return Canal will be ultimately discharged at Outfall 001 to Mississippi River.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALLS 104 and 204

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 104 - Stormwater runoff from electrical salvage yard and 204 - stormwater from containment area for equipment.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing. Any exceedance of a requirement will require monitoring at 1/week frequency until three (3) consecutive samples are completely compliant.

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OUTFALLS 104 and 204

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month* via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 104, stormwater runoff from electrical salvage yard just east of Block 41 (No. 3 on August 18, 1983 Map), and Outfall 204 containment area for equipment.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOUTFALLS 105 and 205

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 105 - Utility and stormwater runoff from Fab. and 205 stormwater runoff from machine shop.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass(lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing. Any exceedance of a requirement will require monitoring at 1/week frequency until three (3) consecutive samples are completely compliant.

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OUTFALLS 105 and 205

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month* via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 105, utility and stormwater runoff from Fab and 205, stormwater runoff from the machine shop to Bayou Bourbeaux.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOUTFALL 007

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 007 - Stormwater runoff from railcar switching area and spare parts storage.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass(lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing. Any exceedance of a requirement will require monitoring at 1/week frequency until three (3) consecutive samples are completely compliant.

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OUTFALL 007

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month* via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: 007, stormwater runoff from railcar switching area and spare parts storage to Bayou Bourbeaux (No. 7 on August 18, 1983 Map).

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOUTFALLS 108, 208, 308 and 408

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 108, 208, 308 and 408 - stormwater runoff from Environmental Operations Plant Area (4 point sources).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass(lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing. Any exceedance of a requirement will require monitoring at 1/week frequency until three (3) consecutive samples are completely compliant.

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OUTFALLS 108, 208, 308 and 408

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month* via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations:

- 008 - Stormwater runoff at Environmental Operation Department to Bayou Bourbeaux.
- 108 - Stormwater adjacent to Environmental Operation Plant.
- 208 - Field drainage and tank car switching area.
- 308 - Stormwater adjacent to Environmental Operation Plant.
- 408 - Field drainage, future landfill stormwater runoff.

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PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOUTFALLS 109 and 209

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfalls 109 and 209 - Uncontaminated stormwater discharge.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	<u>Mass (lbs/day)</u>		<u>Other Units (Specify)</u>	
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>
Flow (MGD)	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	50 (mg/l)
Oil and Grease	N/A	N/A	N/A	15 (mg/l)

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow (MGD)	1/Month*	Estimate
Total Organic Carbon	1/Month*	Grab
Oil and Grease	1/Month*	Grab

* When flowing. Any exceedance of a requirement will require monitoring at 1/week frequency until three (3) consecutive samples are completely compliant.

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OUTFALLS 109 and 209

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month* via grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 109, uncontaminated stormwater from New Tank Farm diked areas #1 and #2; 209, uncontaminated stormwater from New Tank Farm diked area #3, both 109 and 209 to tributary of Bayou Bourbeaux. (Reference letter dated June 19, 1985 Gustafson, Dow-Dehn, EPA).

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SECTION B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

NONE

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PART II
STANDARD CONDITIONS FOR NPDES PERMITS

SECTION A. GENERAL CONDITIONS

1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

2. Penalties for Violations of Permit Conditions

The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

3. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or a permanent reduction or elimination of the authorized discharge; or,
- d. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

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4. Toxic Pollutants

Notwithstanding Part II.A.3, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Clean Water Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition and the permittee so notified.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part II.B.4.b) and "Upsets" (Part II.B.5.b), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

6. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

7. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

8. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

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9. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Definitions

The following definitions shall apply unless otherwise specified in this permit:

- a. "Daily Discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day. "Daily discharge" determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that sampling day.
- b. "Daily Average" (also known as monthly average) discharge limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. When the permit establishes daily average concentration effluent limitations or conditions, the daily average concentration means the arithmetic average (weighted by flow) of all "daily discharges" of concentration determined during the calendar month.
- c. "Daily Maximum" discharge limitation means the highest allowable "daily discharge" during the calendar month.
- d. The term "MGD" shall mean million gallons per day.
- e. The term "mg/l" shall mean milligrams per liter or parts per million (ppm).
- f. The term "ug/l" shall mean micrograms per liter or parts per billion (ppb).

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SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

2. Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

4. Bypass of Treatment Facilitiesa. Definitions

- (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

- b. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Part II.B.4.c and 4.d.

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c. Notice

- (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.D.6 (24-hour notice).

d. Prohibition of bypass

- (1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
 - (c) The permittee submitted notices as required by Part II.B.4.c.
- (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed at Part II.B.4.d.(1).

5. Upset Conditions

- a. Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

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- b. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Part II.B.5.c are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required by Part II.D.6; and,
 - (4) The permittee complied with any remedial measures required by Part II.B.3.
- d. Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

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SECTION C. MONITORING AND RECORDS1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Director.

2. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than + 10% from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration, and operation of acceptable flow measurement devices can be obtained from the following references:

- a. "A Guide to Methods and Standards for the Measurement of Water Flow", U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 97 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by SD catalog No. C13.10:421).
- b. "Water Measurement Manual", U.S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by Catalog No. I27.19/2:W29/2, Stock No. S/N 24003-0027).
- c. "Flow Measurement in Open Channels and Closed Conduits", U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Service (NTIS), Springfield, VA 22151. Order by NTIS No. PB-273 535/5ST).
- d. "NPDES Compliance Sampling Manual", U.S. Environmental Protection Agency, Office of Water Enforcement, Publication MCD-51, 1977, 140 pp.

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(Available from the General Services Administration [8FFS],
Centralized Mailing Lists Services, Building 41, Denver Federal
Center, Denver, CO 80225).

3. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

4. Penalties for Tampering

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

5. Reporting of Monitoring Results

Monitoring results must be reported on a Discharge Monitoring Report (DMR) Form EPA No. 3320-1. Monitoring results obtained during the previous month shall be summarized and reported on a DMR form post-marked no later than the _____ day of the month following the completed reporting period. The first report is due on _____. Duplicate copies of DMR's signed and certified as required by Part II.D.11 and all other reports required by Part II.D (Reporting Requirements) shall be submitted to the Director and to the State (if listed) at the following address(es):

Director
Water Management Division (6W)
U.S. Environmental Protection Agency
Region VI
InterFirst Two Building
1201 Elm Street
Dallas, Texas 75270

J. Dale Givens
Assistant Secretary for Water
Water Pollution Control Division
Louisiana Department of
Environmental Quality
P.O. Box 44066
Baton Rouge, Louisiana 70804-4066

6. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased monitoring frequency shall also be indicated on the DMR.

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7. Averaging of Measurements

Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

8. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time.

9. Record Contents

Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used; and,
- f. The results of such analyses.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

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SECTION D. REPORTING REQUIREMENTS1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR Part 122.29(b) [48 FR 14153, April 1, 1983, as amended at 49 FR 38046, September 26, 1984]; or,
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR Part 122.42(a)(1) [48 FR 14153, April 1, 1983, as amended at 49 FR 38046, September 26, 1984].

2. Anticipated Noncompliance

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified at Part II.C.5 (Monitoring).

5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

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6. Twenty-Four Hour Reporting

The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

The following shall be included as information which must be reported within 24 hours:

- a. Any unanticipated bypass which exceeds any effluent limitation in the permit;
- b. Any upset which exceeds any effluent limitation in the permit; and,
- c. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part III of the permit to be reported within 24 hours.

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Part II.D.4, 5, and 6 at the time monitoring reports are submitted. The reports shall contain the information listed at Part II.D.6.

8. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, in a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the "notification levels" described in 40 CFR Part 122.42(a)(1) [48 FR 14153, April 1, 1983, as amended at 49 FR 38046, September 26, 1984].
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that

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discharge will exceed the highest of the "notification levels" described in 40 CFR Part 122.42(a)(2) [48 FR 14153, April 1, 1983, as amended at 49 FR 38046, September 26, 1984].

9. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

10. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated at 40 CFR Part 122.6 [48 FR 14153, April 1, 1983] and any subsequent amendments.

11. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified.

a. All permit applications shall be signed as follows:

- (1) For a corporation - by a responsible corporate officer.
For the purpose of this section, a responsible corporate officer means:
 - (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or,
 - (b) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.

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- (3) For a municipality, State, Federal, or other public agency - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - (a) The chief executive officer of the agency, or
 - (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- b. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described above;
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and,
 - (3) The written authorization is submitted to the Director.
- c. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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12. Availability of Reports

Except for data determined to be confidential under 40 CFR Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of the Director. As required by the Clean Water Act, the name and address of any permit applicant or permittee, permit applications, permits, and effluent data shall not be considered confidential.

13. Penalties for Falsification of Reports

The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

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PART III
OTHER CONDITIONS

1. The "daily average" concentration means the arithmetic average (weighted by flow value) of all the daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average (weighted by flow value) of all the samples collected during that calendar day.

The "daily maximum" concentration means the daily determination of concentration for any calendar day.

2. Noncompliance reporting for upsets and bypasses shall be made within 24 hours to EPA Region 6 at telephone (214) 767-2666 followed by a written report in five days. Violations of daily maximum limitations for pollutants listed below will also be reported in 24 hours followed by a written report in five days. Violations of daily maximum limitations for all other pollutants identified elsewhere in this permit shall be reported in writing within five days.

None.

3. The term "24-hour composite sample" except for volatile organics means a sample consisting of a minimum of eight (8) grab samples of effluents collected at regular intervals over a normal operation day and combined proportional to flow, or a sample continuously collected proportional to flow over a normal operating day.
4. The "daily average" mass discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number days during the calendar month when the measurements were made.

The "daily maximum" mass discharge means the total discharge by weight during any calendar day.

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5. pH EFFLUENT LIMITATIONS UNDER CONTINUOUS MONITORING

Where a permittee continuously measures the pH of wastewater pursuant to a requirement or option in a National Pollutant Discharge Elimination System (NPDES) permit issued pursuant to Section 402 of the Clean Water Act, the permittee shall maintain the pH of such wastewater within the range set forth in the permit, except excursions from the range are permitted, provided:

- (a) The total time during which the pH values are outside the required range of pH values shall not exceed 446 minutes in any calendar month; and,
- (b) No individual excursion from the range of pH values shall exceed 60 minutes.

For purposes of this section, an "excursion" is an unintentional and temporary incident in which the pH value of discharge wastewater exceeds the range set forth in the permit. Both the number of individual excursions exceeding 60 minutes and the total accumulated excursion time in minutes occurring in any calendar month shall be reported in accordance with Part II.C.5 of this permit.

6. BIOMONITORING REQUIREMENTS

The provisions of this section are applicable to Outfall 001.

- (a) The permittee shall determine if eighty (80) percent or greater of the culture of test organisms will survive by use of the "Range-Finding Screening Test" set out in "Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms", EPA 600/4-85/013 (Third Edition, March 1985). Organisms for this test shall be Daphnia sp. if the effluent is less than five (5) parts per thousand salinity or Mysidopsis sp. if the effluent is equal to or greater than five (5) parts per thousand salinity. This screening test will be conducted within sixty (60) days of effectiveness of the biomonitoring requirements. Tests will be conducted once each quarter for a duration of two years utilizing a static method for 24 hours and following this dilution scheme only:

Effluent sample(*)- 100 percent by volume
Dilution water - 0 percent by volume

(*) 24-hour composite; refrigerated after collection

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- (b) If at any time during the two year testing period a test shows a survival of less than eighty (80) percent of the test organisms, the permittee shall within twenty-four (24) hours conduct a replacement static 48-hour median lethal concentration (LC50) test on the originally collected sample. Replacement of effluent samples shall be once per 24 hours. Organisms for this test shall be Daphnia sp. if the effluent is less than five (5) Parts per thousand salinity and reconstituted fresh water (EPA 600/4-85/013, Section 6) shall be used for dilution. If the effluent is equal to or greater than five (5) parts per thousands salinity, Mysidopsis sp. shall be used as the test organism, and reconstituted seawater will be used as dilution water (EPA 600/4-85/013, Section 6). The remaining LC50 methodology is available in EPA 600/4-85/013.
- (c) The permittee has the option to forego the 24-hour screening test and proceed directly with the complete 48-hour test as described above.
- (d) All screening and LC50 test results shall be reported with the Discharge Monitoring Reports. The test results should include the chemical and physical data as specified in Section 10 of EPA 600/4-85/013.
7. For "24-hour composite sample" of volatile organics, the permittee shall manually collect at least four (4) aliquots or grab samples at regular intervals during the actual hours of discharge during a 24-hour period. The aliquots must be combined in the laboratory prior to analysis. Only one (1) analysis or run is required since the aliquots are combined prior to analysis. Grab samples composited for volatile organic analysis need not be flow proportioned.
 8. The permittee may utilize EPA Method 624 in lieu of EPA Methods 601, 602, 604, etc. provided the sampling protocol is no less rigid than that provided in the quantitative method.
 9. Monitoring for total purgeable halocarbons, total purgeable aromatics and phenols is required at the 1/month frequency in Part 1.A. by 24-hour composite using EPA Methods 601, 604, 624, or 1624. In the event of a major spill of a component of these subject pollutants, the final outfall will be monitored by grab sample to assess the impact of the exceedance. The result(s) of such grab sample(s) will not be reported on the DMR's but should accompany the non-compliance report of the spill.
 10. Stormwater leaving the polyethylene areas 900, 1000 and 3100 may be discharged without monitoring schedule provide: 1) the discharge is free of floating solids in other than trace amounts, 2) does not exceed 55 mg/l TOC nor 15 mg/l Oil and Grease on a grab sample basis. Any monitoring by permittee shall be reported for Outfalls 0931 and 1031, 3111, 3121 or 3131 as appropriate on the monthly Discharge Monitoring Reports.

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11. Permittee shall report on a quarterly basis in accordance with Part I.C.2. of the permit, the monthly average of the daily amount and kind(s) of clarifying agent(s) used in the intake water treatment system.
12. In situations where pH of an internal outfall will be deterrent to effective biomonitoring tests, pH adjustment may be necessary. The 24-hour composite sample of the following internal sampling points may utilize the pH adjustment methodology below:

Internal Outfall(s) 311, 321, 511, 521, 611

pH adjustment method. Upon completion of the 24-hour composite sample, the pH of the biomonitoring sample may be adjusted to the 6.0-9.0 range. Actual pH adjustment will utilize either 1 normal hydrochloric acid for alkaline samples or 1 normal sodium hydroxide for acidic samples. Permittee shall report the quantity (volume) of the above acid or base used to adjust the pH of the biomonitoring sample and the initial and final volume of the composite sample collected for the test(s).

13. Permittee shall reapply for alternate test procedure in accordance with 40 CFR Section 136.3 and 4 for Dissolved Total Oxygen Demand for compliance monitoring for Environmental Operations Plant (2001), chlorinated Polyethylene (101) and Non-Contact once-through cooling (Net DTOD at 211, 411, 421, 461 and 711).
14. Permittee shall present a plan to periodically determine the complete oxygen demand balance on the Environmental Operations discharge at internal outfall 2001. The plan will be submitted to LDEQ and EPA for comments within 90 days of the effective date and be applicable over a period of one year. The objective of the plan is to develop a correlation between Dissolved Total Oxygen Demand and the "complete" Total Oxygen Demand and at least one conventional oxygen demand parameter.
15. BEST MANAGEMENT PRACTICES:
 - a. Outfall 1201 - Permittee will continue the Pollution Control Management procedures set forth in the August 18, 1983 letter from Dow pursuant to Tank Car Cleaning.
 - b. Outfall 1601 - Permittee will conform to the BMP commitment received dated April 15, 1983 pursuant to discharges at 1601.
16. Permittee may utilize a composite side-stream from each effluent discharge pump for purposes of pH monitoring at 001. The retention time in the receiver where the pH is actually monitored should not exceed 15 minutes.

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17. In the event of an exceedance of the Total Suspended Solids requirement at Environmental Operations plant (2001) permittee shall monitor for BOD₅ on that day and report the BOD₅ results in writing to EPA and LDEQ within ten (10) days.
18. The monitoring results obtained at 2201 (by-product alkalinity) and 2221 shall be evaluated after one year of data is received. At that time monitoring may be dropped or limitations established based upon the evaluation by EPA and LDEQ.
19. In the event of a daily maximum violation at internal Outfall 1741, permittee may monitor the individual purgeable halocarbons at 2001 and 1741 and subtract those found at 1741 from 2001 to avoid an apparent violation and double jeopardy at the biological treatment system at internal Outfall 2001.
20. In order to provide pH monitoring without performing daily grab samples, permittee will incorporate the use of existing on-line continuous pH monitors which are presently a part of the pH alarm and early warning systems to indicate potential pH upsets. The pH probe locations listed below shall be continuously monitored and recorded for these key pH probe sites for return canal major flow locations:

Final Outfall 001
Cellulose Canal
Chlorine Canal
Solvents Canal
Solvents East
Poly A Canal
Watkins Average

The pH data generated by this monitoring is not subject to pH limitations, but the data will be recorded and retained for a period of three years.

The following minor pH probe locations shall be continuously monitored:

Chlorinated Polyethylene
Caustic Downstream
LHC II Downstream
CMP Downstream
Vinyl II
Water Treating
Chlorine
CA II

The pH readings generated by this monitoring are not subject to pH limitations or records retention. The monitoring of the minor pH locations will serve as an early indication of potential upset conditions.

